Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PC	T Article 36 and Rule 70)				
Applicant's or agent's file reference					
	THER ACTION	See Form PCT/IPEA/416			
International application No. Internationa PCT/JP2003/004069 31 Ma	I filing date (day/month/year)	Priority date (day/month/year)			
International Patent Classification (IPC) or national classif	rch 2003 (31.03.2003)				
D02G 3/38					
Applicant					
	IROTA, Yusuke				
 This report is the international preliminary examin Authority under Article 35 and transmitted to the a 	ation report, established by this	International D. P.			
Authority under Article 35 and transmitted to the a	pplicant according to Article 3	5.			
2. This REPORT consists of a total of4 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, co.	mprising:				
a. (sent to the applicant and to the Internat	tional Bureau) a total of 2	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the					
4. This report contains indications relating to the follow-	wing items:				
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion	with regard to novelty, inventiv	e step and industrial applicability			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the inte	ernational application				
Date of submission of the demand	Date of completion of the	his report			
30 August 2004 (30.08.2004)	•	ay 2005 (11.05.2005)			
ame and mailing address of the IPEA/JP	Authorized officer	-, 2005 (11.05.2005)			
	,	\			
acsimile No.	Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/004069

Box No). I	Basis of the report					
1. With other	regare rwise i	rd to the language, this report is based on the international application in the languag indicated under this item.	e in which it was filed, unless				
	This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:						
1	international search (under Rules 12.3 and 23.1(b))						
j	publication of the international application (under Rule 12.4)						
j	international preliminary examination (under Rules 55.2 and/or 55.3)						
ł		•					
	are not	rd to the elements of the international application, this report is based on (replay to the receiving Office in response to an invitation under Article 14 are referred to an annexed to this report): international application as originally filed/furnished	acement sheets which have been in this report as "originally filed"				
		description:					
	pages	•					
	pages		, as originally filed/furnished				
	pages						
\boxtimes	the cl	claims:					
	pages	4, 6, 7					
	pages	3,0,7	, as originally filed/furnished with any statement) under Article 19				
	pages	,	with any statement) under Article 19				
	pages						
\boxtimes	the dr	rawings:					
	pages	_	'				
	pages		, as originally filed/furnished				
	pages'	received by this Authority on					
	a segu						
	•	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence	e Listing.				
. 🖂	Th						
3. 🔀		amendments have resulted in the cancellation of:					
		the description, pages					
	=	the claims, Nos11, 12					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
		report has been established as if (some of) the amendments annexed to this report, since they have been considered to go beyond the disclosure as filed, as indicated to 20.2(c)).	and listed below had not been ated in the Supplemental Box				
· ·			••				
	Ħ:	the description, pages					
	片:	the claims, Nos.					
i	H;	the drawings, sheets/figs					
	片,	the sequence listing (specify):					
1	LJ ª	any table(s) related to sequence listing (specify):					
* If item	4 appl	lies, some or all of those sheets may be marked "superseded."	·				
· DC	C/TDT2 A	A/400 (D					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/04069

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

such statement		i abplic	i applicability;		
1.	Statement				
	Novelty (N)	Claims	1-10, 13	YES	
	Inventive step (IS)	Claims		NO	
	inventive step (18)	Claims		YES	
	Industrial applicability (IA)	Claims -	1-10, 13	NO	
	applicability (IA)	Claims	1-10, 13	YES	
2.	Citations and explanations	Claims		NO	

Document 1: JP 5-179535 A

Document 2: JP 11-1835 A

Claims 1 to 10 and 13

Documents 1 and 2

Document 1 discloses a fiber material comprising a synthetic fiber containing titanium oxide and a natural fiber (claims, paragraph [0011]), and discloses the use of polyester fiber and nylon fiber as the synthetic fiber (paragraph [0011]).

Document 2 discloses a fiber material comprising a natural fiber and a polyester fiber containing titanium oxide (claims, paragraph [0011]).

Documents 1 and 2 do not make any particular disclosures pertaining to the use of silk or animal hair fibers as the natural fiber, but this type of fiber provides the same effect as natural fibers such as cotton, linen, or rayon, and the use thereof is merely a widely implemented feature (if more documentation pertaining to this feature is necessary, see: JP 4-257333 A (claim 3), WO 01/88237 A (claim 4), or JP 2002-275736 A (claim 2)).

Further, the combination of titanium oxide and silk fiber is a merely a known technique, as the applicant himself notes in the presentation of prior art documents in the background art portion of the description.

Thus, a person skilled in the art could easily conceive of simply using the above two types of fiber-which are merely representative materials, widely used as materials that produce the same effect as natural fibers such as cotton, and which are known in combination with titanium oxide—as the natural fiber in the invention disclosed in documents 1 and 2.

Moreover, even considering the possible effect of selecting the above two fibers, the description cannot be said to provide any disclosure pertaining to the advantages of using the above two fibers. Further, a feature wherein a synthetic fiber is made to contain titanium oxide is disclosed in detail in documents 1 and 2, and as the applicant himself notes, it is known that titanium oxide prevents yellowing, and thus, the invention cannot be considered to produce an exceptional effect.

INTERNATIONAL SEARCH REPORT

From DOT/19A /210 (cacond chapt) (July 1998)

International application No.

PCT/JP03/04069

		····					
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ D02G3/38							
	to International Patent Classification (IPC) or to both	national classification and IPC					
	DS SEARCHED						
Int	Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ D02G, D02J						
	ation searched other than minimum documentation to						
Jits Koka	uyo Shinan Koho 1926-1996 i Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	no 1994–2003 no 1996–2003				
Electronic o	data base consulted during the international search (na	ame of data base and, where practicable, sea	rch terms used)				
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		- 				
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.				
Х	JP 5-179535 A (Unitika Ltd.),	1-13				
	20 July, 1993 (20.07.93), Claims; Par. Nos. [0010] to (Family: none)	[0011]					
х	JP 11-1835 A (Asahi Chemica 06 January, 1999 (06.01.99), Claims; Par. No. [0011] (Family: none)		1-13				
A	JP 4-91238 A (Unitika Ltd.) 24 March, 1992 (24.03.92), All references (Family: none)	,	1-13				
	er documents are listed in the continuation of Box C.	See patent family annex.					
	categories of cited documents: ant defining the general state of the art which is not	"T" later document published after the inter- priority date and not in conflict with the					
consider	ed to be of particular relevance locument but published on or after the international filing	understand the principle or theory under document of particular relevance; the cl	rlying the invention				
"L" documen	nt which may throw doubts on priority claim(s) or which is	considered novel or cannot be considere step when the document is taken alone	ed to involve an inventive				
cited to special r	establish the publication date of another citation or other reason (as specified)	"Y" document of particular relevance; the cleonsidered to involve an inventive step					
"O" document means	O' document referring to an oral disclosure, use, exhibition or other combined with one or more other such						
"P" documer	nt published prior to the international filing date but later priority date claimed	"&" document member of the same patent fa	mily				
Date of the actual completion of the international search 27 June, 2003 (27.06.03) Date of mailing of the international search report 15 July, 2003 (15.07.03)							
Name and ma	iling address of the ISA/	Authorized officer					
Japanese Patent Office							
Facsimile No.		Telephone No.					